

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A peptide encoded by a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
2. (Withdrawn) Antibodies directed against a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
3. (Withdrawn) A nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6 for use in medicine.
4. (Previously Presented) A vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, or antibodies directed against said peptide and, optionally, a pharmaceutically acceptable carrier.
5. (Withdrawn) A vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a peptide encoded by a nucleotide sequence selected from SEQ ID NO:6 or antibodies directed against said peptide and, optionally, a pharmaceutically acceptable carrier.

6. (Withdrawn) A nucleic acid vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a nucleic acid sequence selected from SEQ ID NO:1 and, optionally, a pharmaceutically acceptable carrier.

7. (Withdrawn) A nucleic acid vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a nucleic acid sequence selected from SEQ ID NO:6 and, optionally, a pharmaceutically acceptable carrier.

8. (Withdrawn) A vector vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I, comprising a host in which a recombinant vector comprising a nucleic acid sequence selected from SEQ ID NO:1, has been inserted and, optionally, a pharmaceutically acceptable carrier.

9. (Withdrawn) A vector vaccine for the protection against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising a host in which a recombinant vector comprising a nucleic acid sequence selected from SEQ ID NO:6, has been inserted and, optionally, a pharmaceutically acceptable carrier.

10. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 4 to said mammal.

11. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising administering a vaccine according to claim 5 to said mammal.

12. (Withdrawn) Antibodies directed against a peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, and from SEQ ID NO:6, for use in a diagnostic method.

13. (Previously Presented) Peptide encoded by a nucleotide sequence selected from SEQ ID NO:1, and SEQ ID NO:6, for use in a diagnostic method.

14. (Withdrawn) Primers for, or probes that hybridize with, a nucleotide sequence selected from SEQ ID NO:1 and SEQ ID NO:6, for use in a diagnostic method for the purpose of detecting *Salmonella enterica* subspecies I.

15. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 6 to said mammal.

16. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 8 to said mammal.

17. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I serovar Typhi, comprising administering a vaccine according to claim 7 to said mammal.

18. (Withdrawn) A method for vaccinating a mammal against diseases caused by *Salmonella enterica* subspecies I, comprising administering a vaccine according to claim 9 to said mammal.